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US IND CHEM CO
ILD 980 677 401

ESI PRIORITIZATION QUESTIONNAIRE

Site Name: US IND CHEM CO ID# ILD005078126
Date Prepared: October 4, 1991 Prepared By: Nick Valavanis
Site Location Sections 25, 36 of T.16N., R.7E. and Sections 30, 31 of T.16N., R.8E. Tuscola, Douglas County, Illinois.
Brief Site History US Industrial Chemicals Company (USI) is an active hydrocarbon processing plant located in Tuscola, Illinois. The facility occupies 776 acres, including farmland. The plant produces propane, butane, pentane, ethylene, ethyl alcohol, ethers, and polyethylene. Sulfuric and phosphoric acids were produced into the mid-1970's according to the U.S. EPA RCRA Facility Assessment Report filed in April 1989. US Industrial operates a deep well injection system under NPDES permit originally issued in 1980.

Superfund Preliminary Assessment PA Date (State 8/28/80): PA Rating: Low.
Hazardous Substances of Concern:

Migration Pathway(s) of Concern:

Type of Documentation of Hazardous Substances:

Superfund Site Inspection Date of Inspection (FIT 6/18/84):

Migration Pathways Investigated:
FIT conducted a visual inspection.

Type/Contaminants of Concern Found for each Migration Pathway:
Sulfuric and phosphoric acids were produced on-site.

Data Gaps/Migration Pathways not Investigated:
Surface water, soil, air, and groundwater pathways were not investigated.
All pathways should be investigated.

Superfund HRS Score: N/A.
Actual SI Score: 2.9 Projected HRS Score: N/A.
SSI Rating or Recommendation: N/A.

Target Populations:

Distance to nearest public water supply source (well) None within 4 miles.
Distance to nearest private water supply source 200 feet.

Provide population estimates for the following pathways:

Groundwater

0-1/4 mile	50
1/4-1/2 mile	60
1/2-1 mile	50
1-2 miles	130
2-3 miles	130
3-4 miles	100

Soil Exposure

On-site	800
0-1/4 mile	50
1/4-1/2 mile	60
1/2-1 mile	50

Air

0-1/4 mile	850	1-2 miles	300
1/4-1/2 mile	60	2-3 miles	3500
1/2-1 mile	50	3-4 miles	1000

Surface Water

Distance to nearest intake on-site Population served 800
Total Population served within 15 miles downstream 800
Distance to nearest Fishery adjacent to site Name Kaskaskia River
Distance to nearest sensitive environment > 15 miles Type N/A.
Distance to nearest perennial Surface Water Body adjacent to site Type River

Other (non-Superfund) site inspection activities/Other Program Contacts:
FIT conducted a file search at the Illinois EPA on September 4, 1991. Bruce S. Yare & Associates, Inc. were retained by USI to evaluate groundwater conditions on November 29, 1982. The U.S. EPA completed a RCRA Facility Assessment for USI in April 1989 to determine if hazardous materials were being released to the surrounding environment.

Migration Pathways Investigated:

Surface water, soil, and groundwater pathways were investigated.

Types/Contaminants of concern found for each migration pathway:
Data from RCRA Facility Assessment, April 1989.

Heavy metals:

In drainage ditch: Chromium(344 ppm), Mercury(1.6 ppm).

In sludge pond: Arsenic(69 ppm), Chromium(1800 ppm).

In fly ash pit: Arsenic(261 ppm), Beryllium(3.8 ppm), Lead(202 ppm), Chromium(123 ppm).

In surface water: Arsenic(95 ppm), Chromium(357 ppm), Lead(79 ppm).

Volatile Organic Chemicals:

In gypsum pile: Ethylbenzene(50 ppb), Styrene(49 ppb).

In surface water: Naphthalene(440 ppb), 2-Methylnaphthalene(270 ppb), Acenaphthalene(750 ppb), Acenaphthene(340 ppb), Fluorene(460 ppb), Phenanthrene(910 ppb), Anthracene(240 ppb), Fluoranthene(200 ppb), Pyrene(410 ppb), Chrysene(53 ppb).

Is there PRP/State RI/FS or other remediation underway? (Describe):
None.

State Comment/Recommendation (to be completed by State):